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=> s (bone or calcium or (calcium phosphate)) and cement#

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L1 51901 (BONE OR CALCIUM OR (CALCIUM PHOSPHATE)) AND CEMENT#

=> s L1 and (TCP or (tricalcium phosphate))

L2 1139 L1 AND (TCP OR (TRICALCIUM PHOSPHATE))

=> s L2 and (PHA or hydroxyapatite or hydroxylapatite)

L3 659 L2 AND (PHA OR HYDROXYAPATITE OR HYDROXYLAPATITE)

=> s L3 and ((inroganix phosphate) or CaHPO4 or (apatite and carbonate))

<-----User Break----->

u

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=> s L3 and ((inorganic phosphate) or CaHPO4 or (apatite and carbonate))

L4 160 L3 AND ((INORGANIC PHOSPHATE) OR CAHPO4 OR (APATITE AND CARBONATE))

=> s L4 and (particle size)

L5 78 L4 AND (PARTICLE SIZE)

=> s L5 and (compressive strength)

L6 37 L5 AND (COMPRESSIVE STRENGTH)

=> s L6 and (weight percent)

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=> s l6 and (weight percent?)

L7 20 L6 AND (WEIGHT PERCENT?)

=> s l7 and (settling accelerator)

L8 0 L7 AND (SETTLING ACCELERATOR)

=> s l7 and ((drug delivery) or (biologically active) or bioactive or drug)

6 FILES SEARCHED...

L9 8 L7 AND ((DRUG DELIVERY) OR (BIOLOGICALLY ACTIVE) OR BIOACTIVE
OR DRUG)

=> s l9 and (solution or suspension or paste)

3 FILES SEARCHED...

L10 8 L9 AND (SOLUTION OR SUSPENSION OR PASTE)

=> s L10 and (antibiotic or disinfectant or (growth factor) or (fibroblast
growth factor) or (TGF Beta) or BMP or OP or FGF)

6 FILES SEARCHED...

L11 5 L10 AND (ANTIBIOTIC OR DISINFECTANT OR (GROWTH FACTOR) OR
(FIBRO
BLAST GROWTH FACTOR) OR (TGF BETA) OR BMP OR OP OR FGF)

=> d l11 1-5 ibib abs

L11 ANSWER 1 OF 5 USPATFULL

ACCESSION NUMBER: 1998:85370 USPATFULL

TITLE: **Calcium phosphate cements**
comprising amorphous **calcium**
phosphate

INVENTOR(S): Constantz, Brent R., Portola Valley, CA, United States
Barr, Bryan M., San Jose, CA, United States

PATENT ASSIGNEE(S): Norian Corporation, Cupertino, CA, United States (U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5782971 | | 19980721 |
| APPLICATION INFO.: | US 1997-821021 | | 19970319 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1992-963481, filed on 16 Oct 1992 which is a continuation-in-part of Ser. No. US 1991-722880, filed on 28 Jun 1991, now | | |

abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Marcheschi, Michael

LEGAL REPRESENTATIVE: Bozicevic & Reed LLP, Field, Bret E.

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

LINE COUNT: 590

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Calcium phosphate cements** are provided.

The subject **cements** comprise amorphous **calcium**
phosphate, at least one additional **calcium** source,
usually an additional **calcium phosphate**, and a
liquid component, such as a physiologically acceptable lubricant. Upon
combination of the **cement** components, a flowable composition

capable of setting in vivo into a solid **calcium phosphate** mineral product, such as **hydroxyapatite** is produced. The subject **cement** compositions find use in a variety of applications, including the treatment of injured or compromised hard tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 5 USPATFULL

ACCESSION NUMBER: 92:57273 USPATFULL

TITLE: Methods for in situ prepared **calcium phosphate** minerals

INVENTOR(S): Constantz, Brent R., Woodside, CA, United States

PATENT ASSIGNEE(S): Norian Corporation, Mountain View, CA, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5129905 | | 19920714 |
| APPLICATION INFO.: | US 1989-393579 | | 19890814 (7) |
| DISCLAIMER DATE: | 20061114 | | |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1989-358716, filed on 30 May 1989, now patented, Pat. No. US 5047031 | | |

which

is a continuation-in-part of Ser. No. US 1988-183770, filed on 20 Apr 1988, now patented, Pat. No. US

4880610

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Lewis, Michael

ASSISTANT EXAMINER: DiMauro, Peter T.

LEGAL REPRESENTATIVE: Rowland, Bertram I.

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

LINE COUNT: 705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Calcium phosphate** minerals are formed by using phosphoric acid source substantially free of uncombined water in conjunction with a **calcium** source, normally as any combination of **carbonate**, phosphate and hydroxide, and, as required, any additional base to neutralize the phosphoric acid. Protein may be optionally added. The resulting product is readily formed and then sets to a hard, stable, workable shaped object.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 5 USPATFULL

ACCESSION NUMBER: 91:72991 USPATFULL

TITLE: In situ **calcium phosphate** minerals method

INVENTOR(S): Constantz, Brent R., Woodside, CA, United States

PATENT ASSIGNEE(S): Norian Corporation, Mountain View, CA, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5047031 | | 19910910 |
| APPLICATION INFO.: | US 1989-358716 | | 19890530 (7) |
| DISCLAIMER DATE: | 20061114 | | |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1988-183770, filed on 20 Apr 1988, now patented, Pat. No. US 4880610 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Lewis, Michael L. | | |
| ASSISTANT EXAMINER: | DiMauro, Peter T. | | |

LEGAL REPRESENTATIVE: Rowland, Bertram I.
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
LINE COUNT: 648

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Calcium phosphate** minerals are formed by using phosphoric acid substantially free of uncombined water in conjunction with a **calcium** source, normally as any combination of **carbonate**, phosphate and hydroxide, and, as required, any additional base to neutralize the phosphoric acid. Protein may be optionally added. The resulting product is readily formed and then sets to a hard, stable, workable shaped object.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 4 OF 5 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 416761 EUROPATFULL EW 199111 FS OS STA B
TITLE: Formulations for in situ prepared **calcium phosphate** minerals.
Zusammensetzungen fuer in situ hergestellte Kalziumphosphatmineralien.
Compositions pour des mineraux de phosphate de **calcium** prepares in situ.
INVENTOR(S): Constantz, Brent R., 195 Northridge Drive, Ls. Gatos, California 95066, US
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain View California 94043, US
PATENT ASSIGNEE NO: 1084380
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS 2
Cursitor Street, London EC4A 1BQ, GB
AGENT NUMBER: 31532
OTHER SOURCE: ESP1991018 EP 0416761 A1 910313
SOURCE: Wila-EPZ-1991-H11-T1
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU; R NL; R SE
PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:
PATENT NO KIND DATE

EP 416761 A1 19910313
'OFFENLEGUNGS' DATE: 19910313
APPLICATION INFO.: EP 1990-308890 19900813
PRIORITY APPLN. INFO.: US 1989-393579 19890814

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 416761 EUROPATFULL EW 199252 FS PS STA B
TITLE: Formulations for in situ prepared **calcium phosphate** minerals.
Zusammensetzungen fuer in situ hergestellte Kalziumphosphatmineralien.
Compositions pour des mineraux de phosphate de **calcium** prepares in situ.
INVENTOR(S): Constantz, Brent R., 195 Northridge Drive, Ls. Gatos, California 95066, US
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain View California 94043, US
PATENT ASSIGNEE NO: 1084380
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS 2
Cursitor Street, London EC4A 1BQ, GB

AGENT NUMBER: 31532
OTHER SOURCE: EPB1992061 EP 0416761 B1 92122
SOURCE: Wila-EPS-1992-H52-T1
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R IT; R LI; R LU; R NL; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT
PATENT INFORMATION:

| | PATENT NO | KIND | DATE |
|------------------------|----------------|------------|----------|
| | EP 416761 | B1 | 19921223 |
| 'OFFENLEGUNGS' DATE: | | | 19910313 |
| APPLICATION INFO.: | EP 1990-308890 | | 19900813 |
| PRIORITY APPLN. INFO.: | US 1989-393579 | | 19890814 |
| REFERENCE PAT. INFO.: | EP 26090 A | AU 518908 | B |
| | FR 2096886 A | FR 2537558 | A |
| | GB 1487181 A | | |

L11 ANSWER 5 OF 5 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 347028 EUROPATFULL EW 198951 FS OS STA B
TITLE: **Calcium phosphate** mineral
compositions and methods for preparing same.
Kalziumphosphatmineralzusammensetzungen sowie Verfahren
zu deren Herstellung.
Compositions de mineraux de phosphate de **calcium**
et leurs procedes de preparation.
INVENTOR(S): Constantz, Brent R., 14826 Skyline Boulevard, Woodside
California 94062, US
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain
View California 94043, US
PATENT ASSIGNEE NO: 1084380
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS & CO
2/3 Cursitor Street, London EC4A 1BQ, GB
AGENT NUMBER: 31531
OTHER SOURCE: ESP1989054 EP 0347028 A2 891220
SOURCE: Wila-EPZ-1989-H51-T1
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R ES; R FR; R GB; R GR; R IT; R LI; R LU; R NL; R SE
PATENT INFO.PUB.TYPE: EPA2 EUROPÄISCHE PATENTANMELDUNG
PATENT INFORMATION:

| | PATENT NO | KIND | DATE |
|------------------------|----------------|------|----------|
| | EP 347028 | A2 | 19891220 |
| 'OFFENLEGUNGS' DATE: | | | 19891220 |
| APPLICATION INFO.: | EP 1989-303806 | | 19890418 |
| PRIORITY APPLN. INFO.: | US 1988-183770 | | 19880420 |

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 347028 EUROPATFULL EW 199838 FS PS
TITLE: **Calcium phosphate** mineral
compositions and methods for preparing same.
Kalziumphosphatmineralzusammensetzungen sowie Verfahren
zu deren Herstellung.
Compositions de mineraux de phosphate de **calcium**
et leurs procedes de preparation.
INVENTOR(S): Constantz, Brent R., 14826 Skyline Boulevard, Woodside
California 94062, US
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain

View California 94043, US
PATENT ASSIGNEE NO: 1084380
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS York
House 23 Kingsway, London WC2B 6HP, GB
AGENT NUMBER: 31532
OTHER SOURCE: EPB1998051 EP 0347028 B1 980916
SOURCE: Wila-EPS-1998-H38-T1
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R DE; R FR; R GB
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT
PATENT INFORMATION:

| | PATENT NO | KIND | DATE |
|------------------------|----------------|------|--------------|
| | ----- | | |
| | EP 347028 | B1 | 19980916 |
| 'OFFENLEGUNGS' DATE: | | | 19891220 |
| APPLICATION INFO.: | EP 1989-303806 | | 19890418 |
| PRIORITY APPLN. INFO.: | US 1988-183770 | | 19880420 |
| REFERENCE PAT. INFO.: | US 3379541 A | | US 3647371 A |

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